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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,512	09/08/2003	David L. Cutsforth	1099.1103102	9160
28075	7590 01/12/2006		EXAMINER	
CROMPTON, SEAGER & TUFTE, LLC 1221 NICOLLET AVENUE			MCDONALD, SHANTESE L	
SUITE 800			ART UNIT	PAPER NUMBER
MINNEAPOL	LIS, MN 55403-2420		3723	
			DATE MAILED: 01/12/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	:	Application No.	Applicant(s)	•			
Office Action Summary		10/657,512	CUTSFORTH, DAVID L.				
		Examiner	Art Unit				
		Shantese L. McDonald	3723				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with th	e correspondence address	•.			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMENTS IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. or period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statutely reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI .136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS for the, cause the application to become ABANDO	ION. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).	i.			
Status							
1)	Responsive to communication(s) filed on <u>07</u>	October 2005					
2a)□							
3)	,—		prosecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	ordered in adderdance with the practice ander	Expante quayle, 1000 C.B. 11,	100 0.0. 210.				
Disposit	ion of Claims						
4)	4) Claim(s) <u>34-38,44-46 and 51-62</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	_						
6)							
7)							
8)□	· <u> </u>						
•							
Applicat	ion Papers			•			
9)[The specification is objected to by the Examir	ner.		•			
10)	The drawing(s) filed on is/are: a) ☐ ac	ccepted or b) objected to by the	ıe Examiner.	•			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	٠.			
	Replacement drawing sheet(s) including the corre	ection is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the E	Examiner. Note the attached Off	ice Action or form PTO-152.				
Dui a vitu							
Priority (under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreig	ın priority under 35 U.S.C. § 119	(a)-(d) or (f).	•			
a)	☐ All b)☐ Some * c)☐ None of:		•				
	1. Certified copies of the priority documer	nts have been received.		, ,			
	2. Certified copies of the priority documer	nts have been received in Applic	ation No	. •			
	3. Copies of the certified copies of the pri	ority documents have been rece	eived in this National Stage				
	application from the International Bure	au (PCT Rule 17.2(a)).		•			
* 5	See the attached detailed Office action for a lis	st of the certified copies not rece	ived.				
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Attachmen	t(s)			٠٠ ٠			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Statement(s) (PTO-152)							
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	8) 5) ☐ Notice of Inform. 6) ☐ Other:	ai i ateit Application (FTO-192)	•			
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 56,59 and 62 all recite the limitation "the finished depth" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 34,36-38,53-56 and 60-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marshall in view of Millas.

Marshall teaches forming a groove in a collector ring of an electrical motor, (col. 5, lines 60-64). Marshall teaches all the limitations of the claims except for cutting the groove using a hand held rotary grinder, and the groove having a first depth before the method is performed and a second depth after the method is performed and the finished depth of the groove being between 0.02 and 0.375 inches. Millas teaches using a hand held rotary grinder to produce grooves in a workpiece, (col. 1, lines 6-34). It would have been obvious to one having ordinary skill in the art at the time the invention was made, to make the groove of Marshall using a hand held rotary grinder, as taught by Millas,

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since the Marshall reference is silent as to what actually performs the machining of the groove, and the Millas reference teaches that it is known in the art to used a hand held grinder in order to mill or cut grooves in a workpiece. It would have been further obvious for the groove to have a first depth before the method and a second depth after the method, and for the finished depth to be between 0.02 and 0.375 inches, since it is obvious when cutting a groove for the operator to first begin cutting the groove and then choose to enlarge or further cut the groove, and also for the finish depth to be between 0.02 and 0.375, dependant upon the desired finished groove.

Allowable Subject Matter

Claims 35,44 and 45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 46,51,52 and 57-59 allowed.

Response to Arguments

Applicant's arguments with respect to claims 34,36-38,53-56 and 60-62 have been considered but are most in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese L. McDonald whose telephone number is (571) 272-4486. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.L.M. January 9, 2006

> Joseph J. Hail, III Supervisory Patent Examiner Technology Center 3700

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